START

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April 15, 1991

Meeting Minutes Transmittal/Approval
Unit Managers Meeting: 200-BP-1 Operable Unit
450 Hills Street, Rm 47
March 21, 1990

From/
Appvl.: _____ Date: 4-16-91
Julie K. Erickson, 200-BP-1 Unit Manager, DOE-RL (A6-95)

Appvl.: _____ Date: 4/16/91
Douglas R. Sherwood, 200-BP-1 Unit Manager, EPA (B5-01)

Appvl.: _____ Date 4/16/91
Larry Goldstein, 200-BP-1 Unit Manager, WA Department of Ecology

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Meeting Minutes are attached. Minutes are comprised of the following:

Attachment #1 - Meeting Summary/Summary of Commitments and Agreements
Attachment #2 - Attendance List
Attachment #3 - Agenda for the Meeting
Attachment #4 - Commitments/Agreements Status List
Attachment #5 - Physical Soil Samples
Attachment #6 - 200-BP-1 Groundwater Well Installation, Task 6 Status
Attachment #7 - Presentation on Spectral Gamma Logging
Attachment #8 - Revised Schedule for RI/FS Activities

Prepared by: _____ Date: 4/16/91
SWEC Support Services

Concurrence by: _____ Date: 4/16/91
WHC RI Coordinator

200-BP-1 Operable Unit Managers Meeting
March 21, 1990

Distribution:

Donna Lacombe, PRC
Ward Staubitz, USGS
Doug Fassett, SWEC (A4-35)
Linda Powers, WHC (B2-35)
Tom Wintczak, WHC (B2-15)
Mel Adams, WHC (H4-55)
Wayne Johnson, WHC (H4-55)
Rich Carlson, WHC (H4-55)
Brian Sprouse, WHC (H4-22)
Bill Price, WHC (S0-03)
Ralph O. Patt,
OR Water Resources Dept.
Doug Dunster, Golder Assoc.
Mike Thompson, DOE (A6-95)
Diane Clark, DOE (A5-55)
Mark Buckmaster, WHC (H4-55)

cc. Ronald D. Izatt (A6-95)
Director, DOE-RL, ERD
Donald E. Gerton (A6-80)
Director, DOE-RL, WMD
Roger D. Freeberg (A6-95)
Chief, Rstr. Br., DOE-RL/ERD
Steven H. Wisness (A6-95)
Tri-Party Agreement Proj. Mgr
Richard D. Wojtasek (B2-15)
Prgm. Mgr. WHC
Mary Harmon, DOE-HQ (EM-442)

ADMINISTRATIVE RECORD: 200-BP-1; Care of Susan Wray, WHC (H4-51C)

Please inform Doug Fassett (SWEC) of deletions or additions to the distribution list.

Attachment #1

Meeting Summary and Summary of Commitments and Agreements

200-BP-1 Unit Manager's Meeting
March 21, 1991

1. The status of current Action Items was given by Mark Buckmaster (WHC), (also see Attachment #4).

   2BP1.38: Closed

   2BP1.42: Closed

   2BP1.45: A hazard assessment was done at the 200 area crib. It will be used as a basis for the safety analysis for the surface stabilization activities.

   2BP1.46: Closed; Attachment #5 contains tables showing the soil samples that were collected for physical parameter analyses. Doug Sherwood (EPA) recommended that rad. analysis be done on samples from E33-40 because of the question about background.

2. The progress report on the remedial investigation was presented by Mark Buckmaster (see Attachment 6).

   Mark Buckmaster inquired about the status of the letter from Ward Staubitz on acceptable borehole soil-sampling methodology. Doug Sherwood (EPA) said that he thought it was in his in-basket.

3. Randy Price (WHC) presented the initial results of spectral gamma borehole logging (see Attachment 7). Doug Sherwood recommended looking for technetium 99 also.

4. The revised schedule shows all activities moved to later dates, but the milestone to produce the final report is met by decreasing the time (see Attachment #8).

5. The near surface soil samples required were determined by Mark Buckmaster, Doug Sherwood and Julie Erickson in a meeting the week of March 11, 1991. A change request will be mailed to EPA to amend the work plan. Work is planned to start the week of March 25.

6. Doug Sherwood (EPA) reminded WHC/DOE that the letter on the Radiation Area Remedial Action must be provided before activities start, and the change order on surface soil-sampling must be issued before sampling starts.

Attachment #2

Attendance

200-BP-1 Operable Unit Managers Meeting
March 21, 1990

Name	Org.	O.U. Role	Phone
Julie Erickson	DOE-RL	Unit Manager	509-376-3603
Chuck Cline	Ecology	Hydrogeology	206-438-7556
Richard Hibbard	Ecology	CERCLA Unit	206-493-9367
Doug Sherwood	EPA	Unit Manager	206-376-9529
Donna Lacombe	PRC	EPA Contractor	206-624-2692
Carol Collins	SWEC	GSSC, DOE-RL	509-376-1009
Doug Fassett	SWEC	GSSC, DOE-RL	509-376-5011
Bill Fryer	SWEC	GSSC, DOE-RL	509-376-0412
Brian Drost	USGS	EPA Support	206-593-6510
Mark Buckmaster	WHC	RI Coordinator	509-376-1792
Rich Carlson	WHC	Env. Engineer	509-376-9027
Jack Fassett	WHC	Work Support	509-376-4224
Randall Price	WHC	Logging Support	509-376-9148

200-BP-1 UNIT MANAGERS MEETING AGENDA
MARCH 21, 1991
10:00-12:00 AM
450 HILLS ST., ROOM 47

Introduction:

Status:

Action Items:

Work Plan:

Remedial Investigation:

- o Groundwater Well Construction
- o Groundwater Sampling
- o Near Surface Soil Sampling
- o Source and Vadose Sampling

Issues:

- o Revised RI Schedule

Other Topics:

Agreements and Commitments:

ACTION ITEMS

Item Number	Action	Status
2BP1.43	Provide Doug Sherwood (EPA) information on: 1) delays in the field work and reasons for the delays, 2) hazards being analyzed and the findings, and 3) new safety requirements imposed due to this analysis. Action: M. Buckmaster (WHC) (1/24/91, BP1.UMM)	Open
2BP1.45	Investigate the apparent inconsistent application of Safety Documentation requirements to work at Hanford. In particular, identify differences in the plans to remove radiologically contaminated soil in the 200-BP-1 OU verses the ERA for the 300 Area process trenches, and the RARA program verses CERCLA. Action: J. Patterson (2/21/91)	Open
2BP1.46	Provide a list of the samples that have been collected from the groundwater wells for physical analysis. Also, provide a list of monitoring wells that have been sampled. Action: M. Buckmaster (2/21/91)	Closed. Information provide at the March UMM.

WELL 299-E33-40
PHYSICAL SOIL SAMPLES

SAMPLE NUMBER	ANALYSIS
299-E33-40-005.0 299-E33-40-008.0 299-E33-40-045.0-047.0 299-E33-054.0 299-E33-40-196.3-198.3 299-E33-40-201.0-203.0	1. CARBONATE CONTENT 2. MOISTURE CONTENT 3. GRAIN SIZE ANALYSIS 4. HYDRAULIC CONDUCTIVITY 5. CAPILLARY-MOISTURE RETENTION RELATIONSHIP 6. POROSITY * NOTE: A
299-E33-40-175	1. CARBONATE CONTENT 2. MOISTURE CONTENT 3. GRAIN SIZE ANALYSIS 4. CAPILLARY-MOISTURE RETENTION RELATIONSHIP * NOTE B
299-E33-40-217.0-219.0	1. GRAIN SIZE ANALYSIS 2. SORPTION ANALYSIS 3. POROSITY * NOTE A
299-E33-40-225	1. GRAIN SIZE ANALYSIS 2. SORPTION * NOTE A
299-E33-40-304.5 299-E33-40-311.0 299-E33-40-318	1. GRAIN SIZE ANALYSIS * NOTE A

* NOTE:
A - SAMPLES COLLECTED FROM SPLIT TUBE SAMPLER
B - SAMPLES COLLECTED FROM DRIVE BARREL

WELL 299-E33-39
PHYSICAL SOIL SAMPLES

SAMPLE NUMBER	ANALYSIS
299-E33-39-005.0 299-E33-39-126.5 299-E33-39-191.2	1. CARBONATE CONTENT 2. MOISTURE CONTENT * NOTE B
299-E33-39-080.5	1. CARBONATE CONTENT 2. MOISTURE CONTENT 3. GRAIN SIZE ANALYSIS 4. HYDRAULIC CONDUCTIVITY 5. POROSITY * NOTE A
299-E33-39-020.7 299-E33-39-031.0 299-E33-39-102.0 299-E33-39-121.4 299-E33-39-176.3 299-E33-39-180.8	1. GRAIN SIZE ANALYSIS 2. MOISTURE CONTENT 3. CARBONATE CONTENT * NOTE B
299-E33-39-220.5 299-E33-39-226.5	1. GRAIN SIZE ANALYSIS * NOTE B

* NOTE:
A - SAMPLES COLLECTED FROM SPLIT TUBE SAMPLER
B - SAMPLES COLLECTED FROM DRIVE BARREL

WELL 299-E33-38
PHYSICAL SOIL SAMPLES

SAMPLE NUMBER	ANALYSIS
299-E33-38-006.2 299-E33-38-049.4 299-E33-38-167.4 299-E33-38-187.4 299-E33-38-190.0 299-E33-38-191.0 299-E33-38-204.4	1. CARBONATE CONTENT 2. MOISTURE CONTENT 3. GRAIN SIZE ANALYSIS 4. HYDRAULIC CONDUCTIVITY 5. CAPILLARY-MOISTURE RETENTION RELATIONSHIP 6. POROSITY * NOTE: A
299-E33-38-012.0 299-E33-38-015.0	1. CARBONATE CONTENT 2. MOISTURE CONTENT 3. GRAIN SIZE ANALYSIS 4. CAPILLARY-MOISTURE RETENTION RELATIONSHIP * NOTE B
299-E33-38.230.0 299-E33-38-238.0	1. GRAIN SIZE ANALYSIS 2. SORPTION ANALYSIS 3. POROSITY * NOTE A

* NOTE:
A - SAMPLES COLLECTED FROM SPLIT TUBE SAMPLER
B - SAMPLES COLLECTED FROM DRIVE BARREL

200-BP-1 GROUNDWATER WELL INSTALLATION, TASK 6 STATUS-MARCH 20, 1991

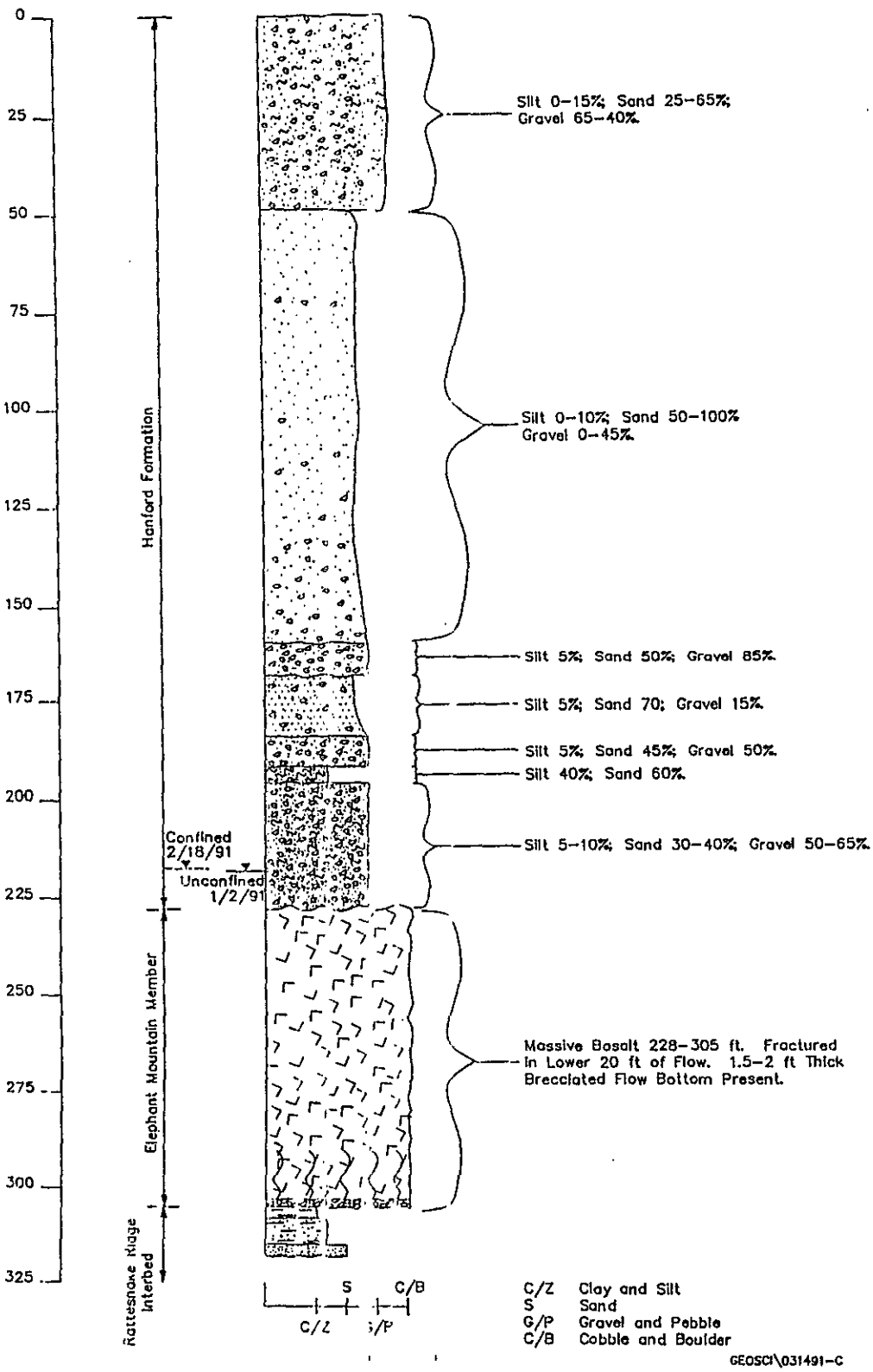
1. Groundwater well installation:

   - 299-E33-40, Completion activities are underway and should be completed by the end of March.

2. Physical Samples.

3. Spectral Gamma Logging.

299 -E33-40


0
25
50
75
100
125
150
175
200
225
250
275
300
325
Hanford Formation
Elephant Mountain Member
Rattlesnake Ridge Interbed
Confined 2/18/91
Unconfined 1/2/91
Silt 0–15%; Sand 25–65%; Gravel 65–40%
Silt 0–10%; Sand 50–100% Gravel 0–45%
Silt 5%; Sand 50%; Gravel 85%
Silt 5%; Sand 70; Gravel 15%
Silt 5%; Sand 45%; Gravel 50%
Silt 40%; Sand 60%
Silt 5–10%; Sand 30–40%; Gravel 50–65%
Massive Basalt 228–305 ft. Fractured In Lower 20 ft of Flow. 1.5–2 ft Thick Brecciated Flow Bottom Present.
S
C/B
C/Z
G/P
C/Z Clay and Silt
S Sand
G/P Gravel and Pebble
C/B Cobble and Boulder
GEOSCI\031491-C

STATUS OF FIRST QUARTER 200-BP-1
GROUNDWATER SAMPLING MARCH 18, 1991

WELLS TO BE SAMPLED	SAMPLING COMPLETED
299-E33-1	699-47-50
299-E33-3	699-47-60
299-E33-4	699-48-50
299-E33-5	699-49-55A
299-E33-7	699-49-55B
299-E33-12	699-49-57A
299-E33-13	699-49-57B
299-E33-15	699-50-53A
299-E33-18	699-50-53B
299-E33-24	699-52-54
299-E33-40	699-52-57
	699-53-55A
	699-53-55B
	699-53-55C
	699-54-57
	699-55-55
	699-55-57
	299-E33-2
	299-E33-14
	299-E33-26
	299-E33-28
	299-E33-29
	299-E33-30
	299-E33-31
	299-E33-32
	299-E33-33
	299-E33-34
	299-E33-35
	299-E33-38
	299-E33-39
	299-E34-1
	299-E34-2
	299-E34-5

NEAR SURFACE SOIL SAMPLING

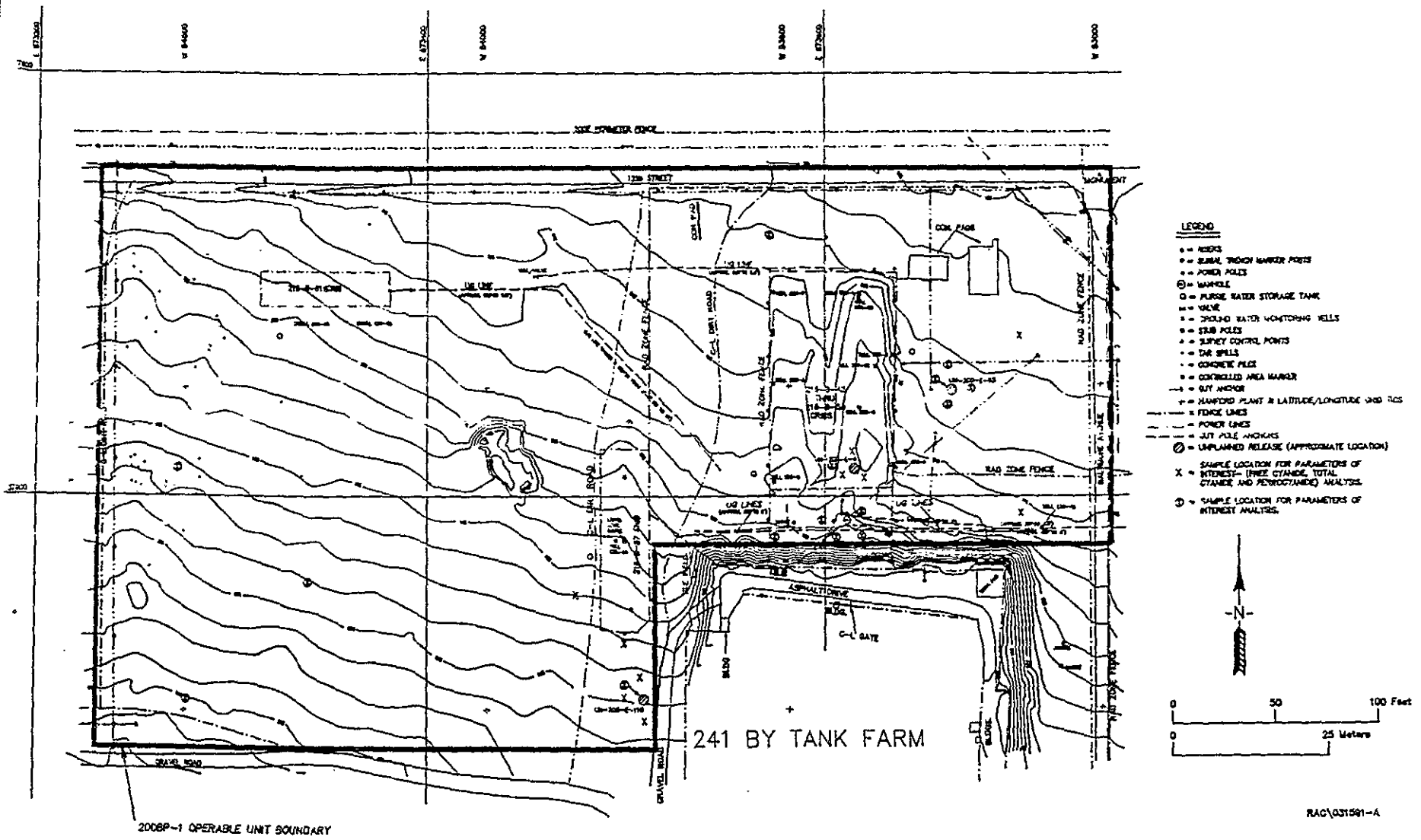
Methodology:

a. unplanned spills
b. flush tank
c. selected "hot spots"
d. background

Analysis:

a. Parameters of Interest with selected reduction of CN analysis

Additional sampling, if required, will be completed at a later based on the results of the initial sampling



200-BP-1 Operable Unit Surface Sampling Locations

SOURCE AND VADOSE SAMPLING

1. Hazard analysis for Task 4 vadose sampling.

   - Hazard Identification:

     a. Fire/explosion - drill rig, methane, welding equipment, and ferrocyanide

     b. Sources of contamination release - empty drive barrel, split tube, decon process, borehole abandonment, and bailing

     c. Criticality

     d. Nature - earthquakes, high winds, and lighting

   - Ferrocyanide issue:

     a. A technical discussion was held March 15, 1991, to discuss the possible explosion of ferrocyanide while drilling through the BY cribs.

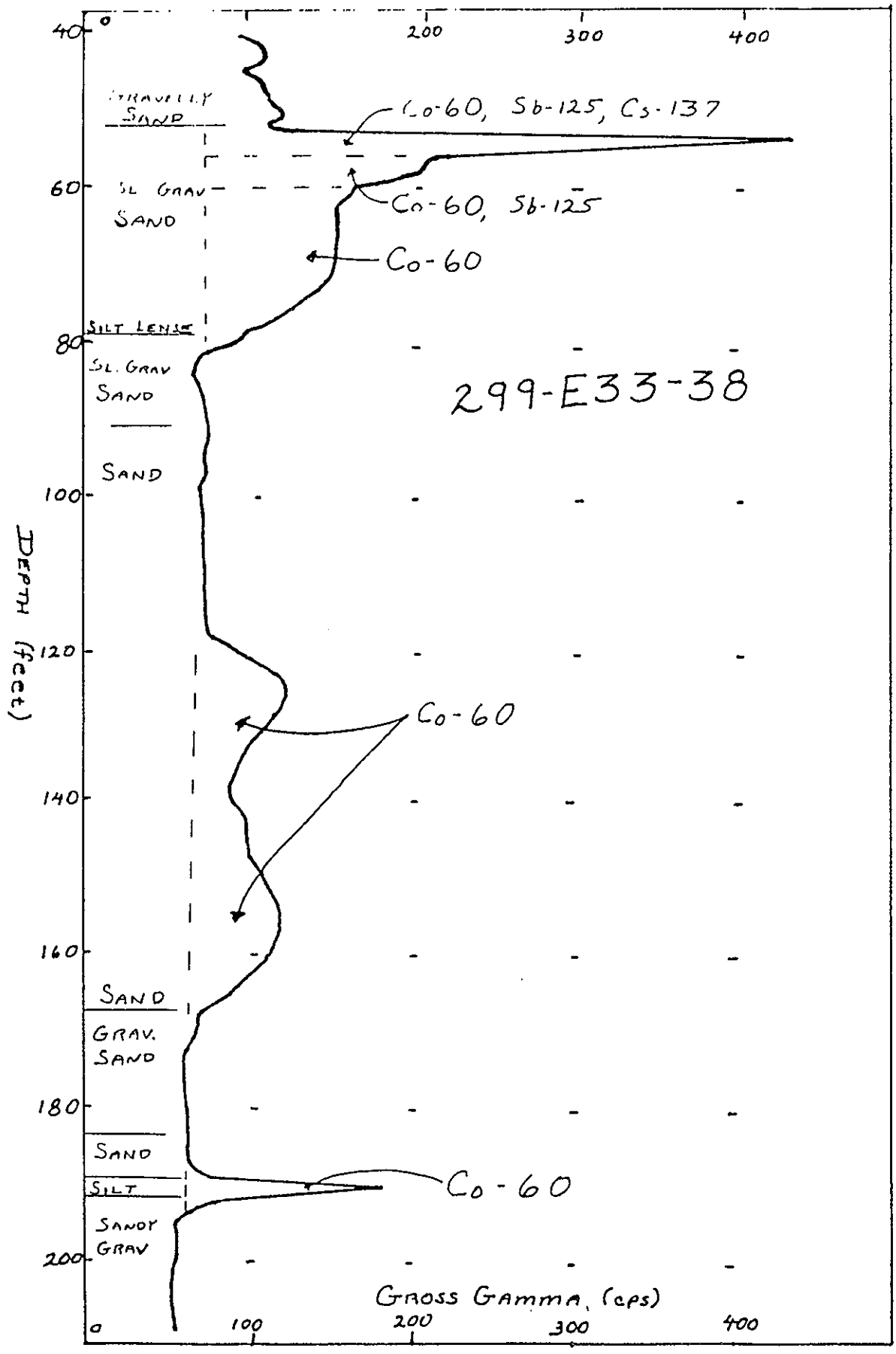
     b. The consensus of the panel was that the credible hazard for a ferrocyanide explosion was technically extremely low.

2. Laboratory Support

   - PNL analytical procedures have been reviewed by WHC.

   - Comments have been resolved and are currently being incorporated into the procedures. Revised procedures will be submitted for WHC approval March 22, 1991.

   - Performance Evaluation sample will be submitted to the 325 laboratory the first week of April. Results be available in approximately 2 weeks.


0
200
300
400
40
60
80
100
120
140
160
180
200
GRAVELLY SAND
Co-60, Sb-125, Cs-137
SL GRAV SAND
Co-60, Sb-125
Co-60
SILT LENSE
SL. GRAV SAND
SAND
299-E33-38
Co-60
SAND
GRAV. SAND
SAND
SILT
SANDY GRAV
Co-60
DEPTH (feet)
GROSS GAMMA (cps)
0
100
200
300
400

TYPE = -1 MCA # 01 SEGMENT # 01 SEQUENCE # 0
REALTIME = 65.44 SECONDS, LIVETIME = 64.70 SECONDS
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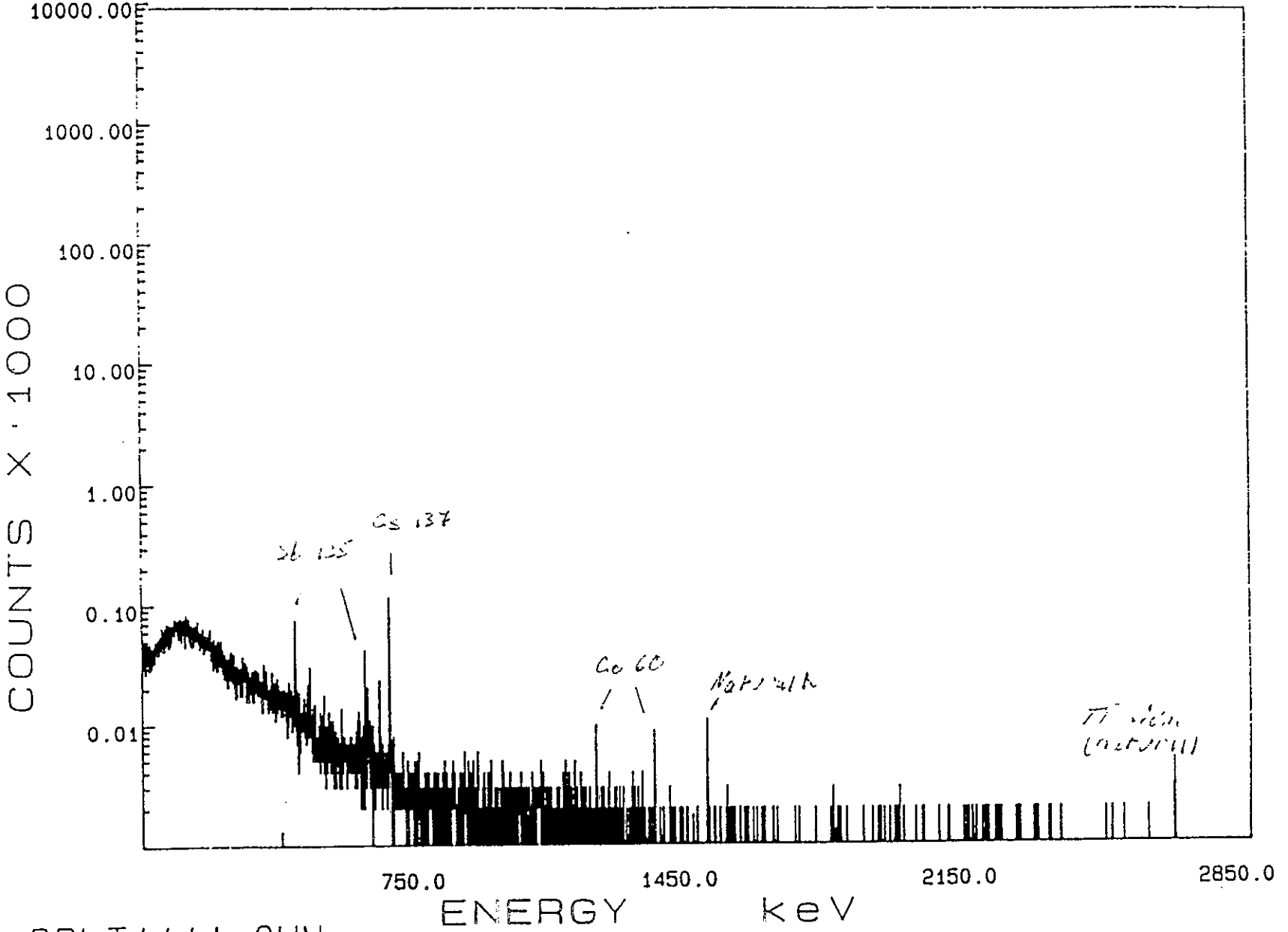

RPI T1111 CHN SAMPLE: Well 299-E33-38 Depth=53.5ft

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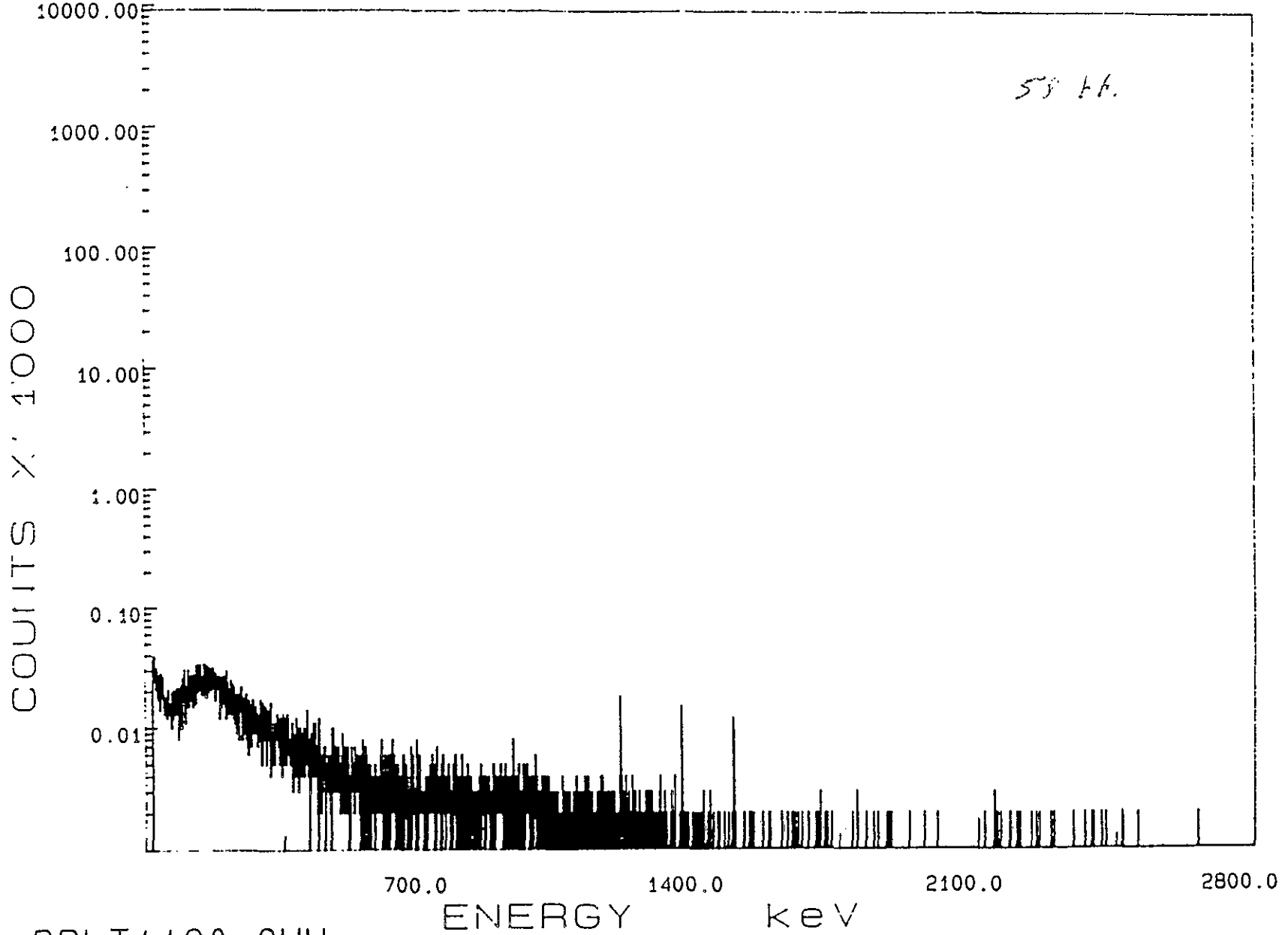
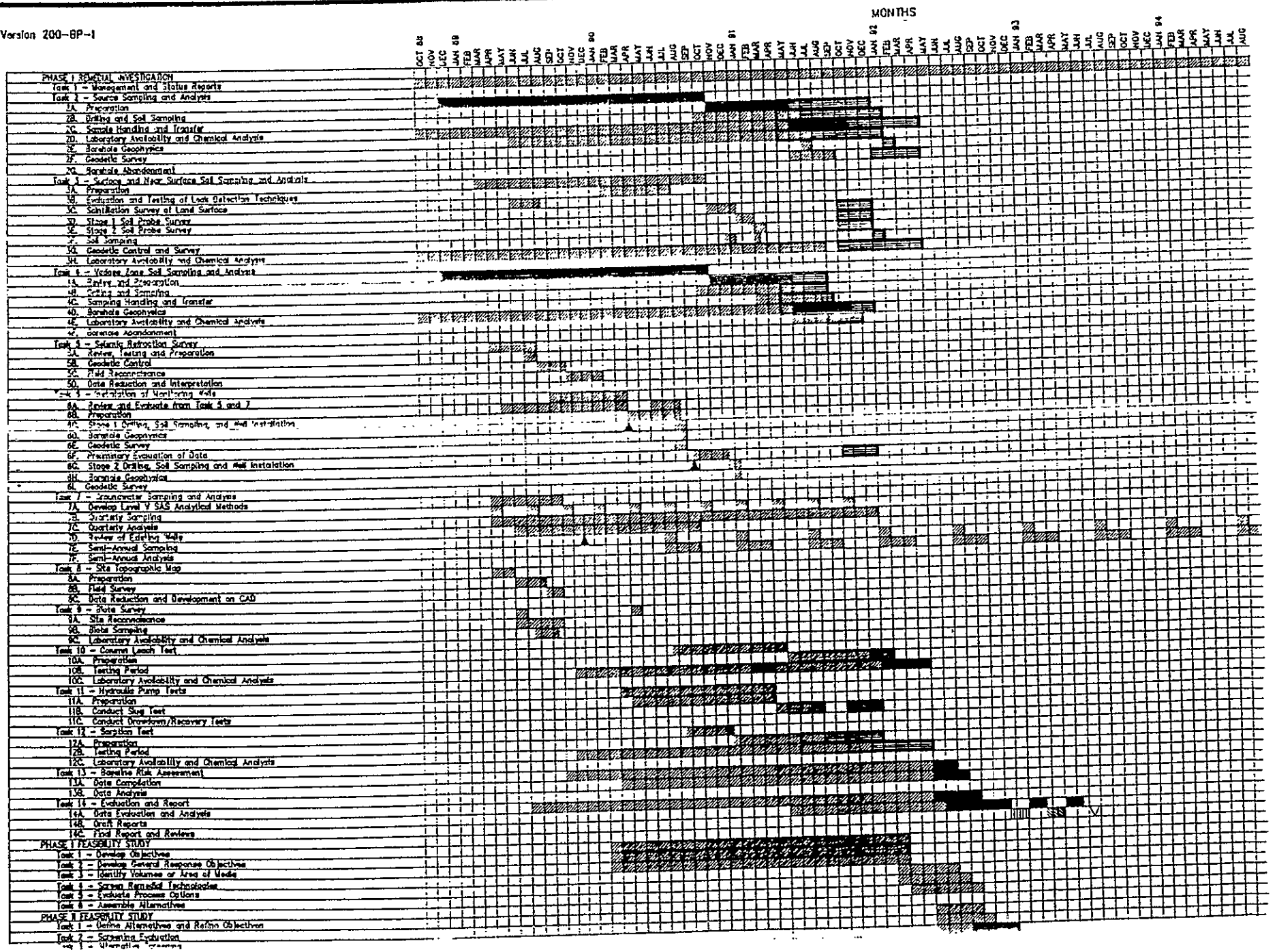
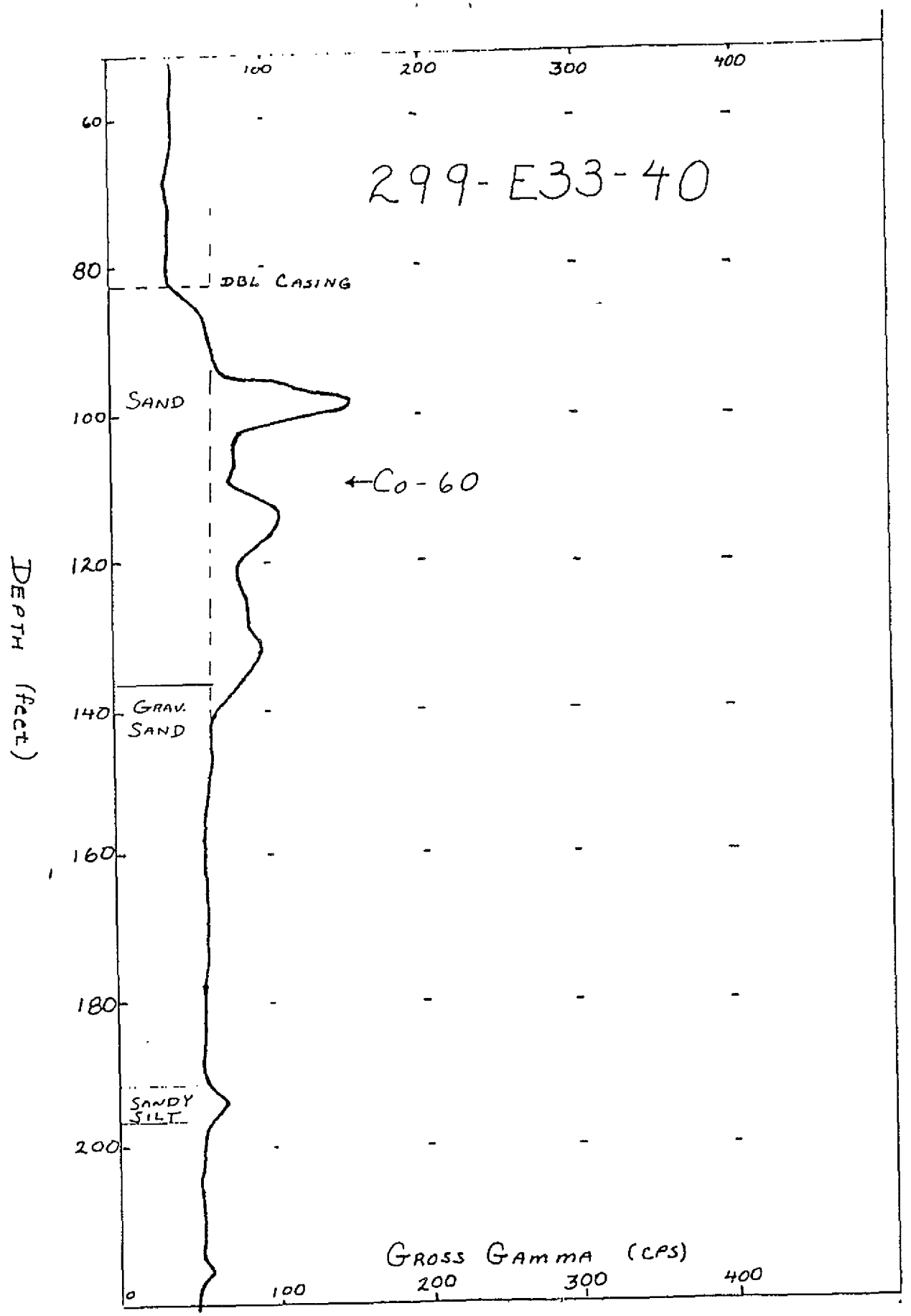


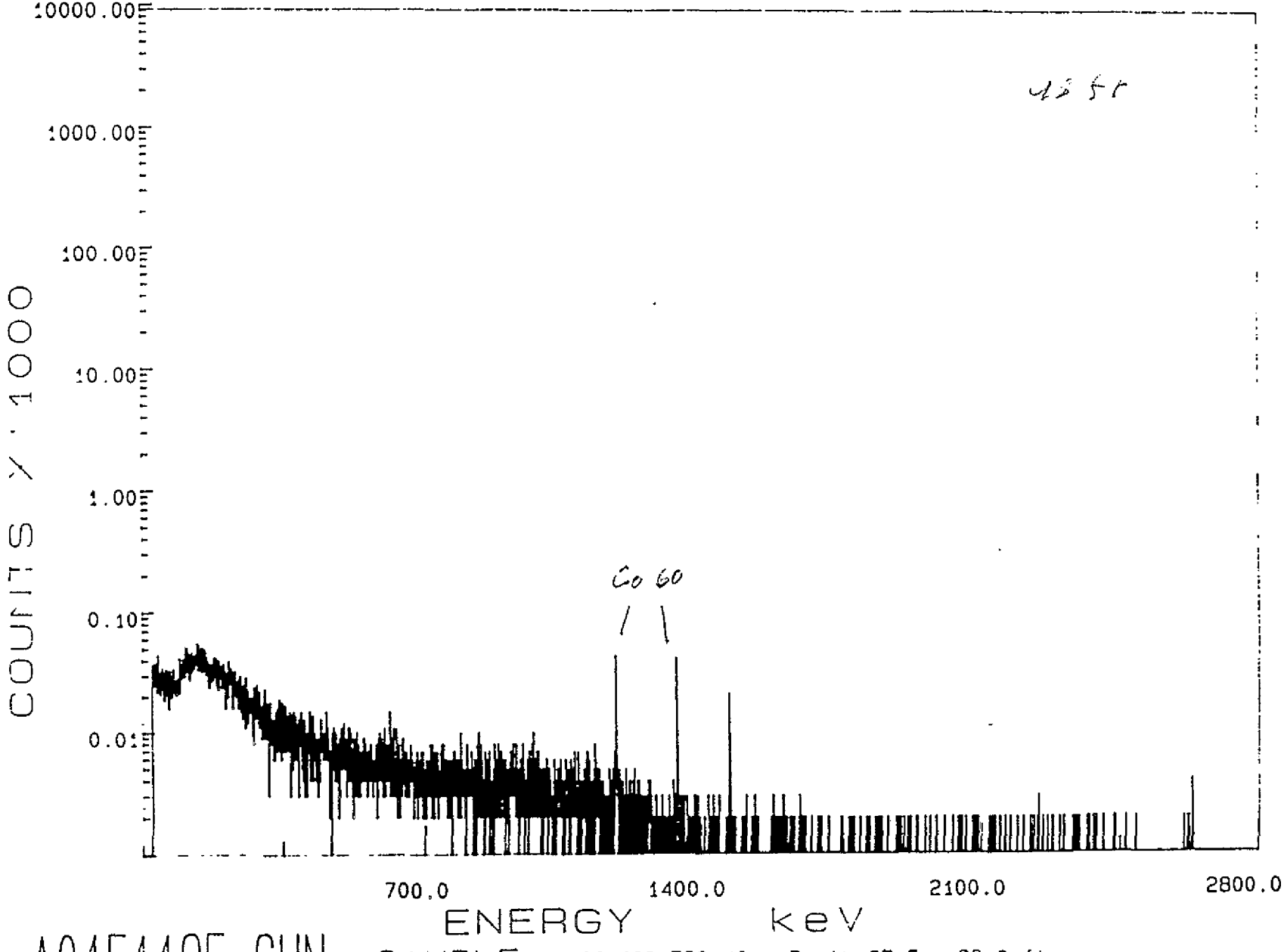
BPLT1120.CHN SAMPLE: 200-BP-1 Well 299-E33-38 Depth 58 - 58.5 ft
RLS HPGe-18%

3/90 Version 200-BP-1




299-E33-40
100
200
300
400
60
80
100
120
140
160
180
200
DBL CASING
SAND
Co-60
GRAV. SAND
SANDY SILT
DEPTH (feet)
GROSS GAMMA (CPS)
0
100
200
300
400

TYPE = -1 MCA # 01 SEGMENT # 01 SEQUENCE # 0
REALTIME = 71.06 SECONDS, LIVETIME = 70.54 SECONDS
DATA COLLECTED AT 11:57:55 ON 15-JAN-91



A0151195 CHN SAMPLE: Well 299-E33-40 Depth 97.5 - 98.0 ft

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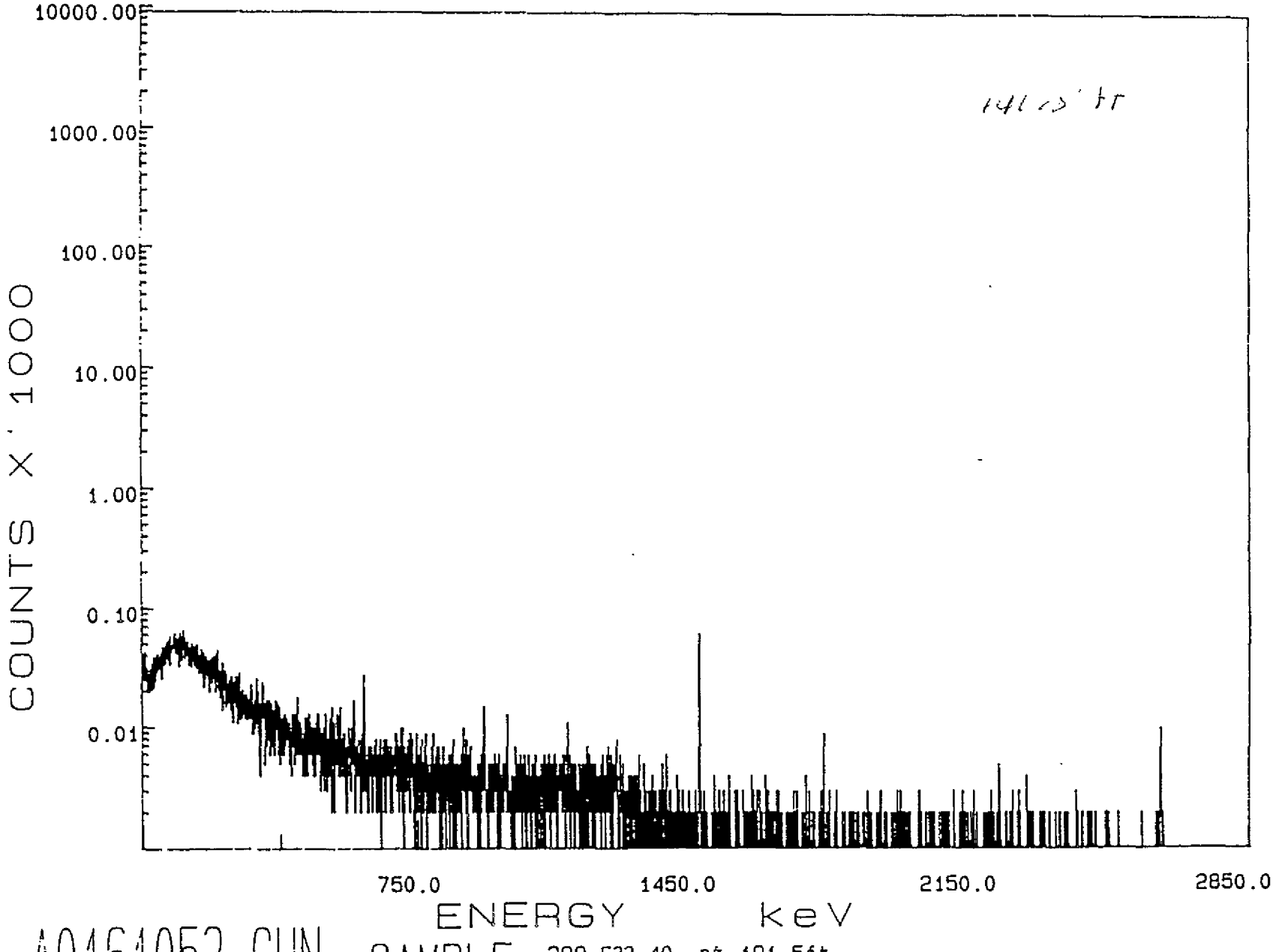
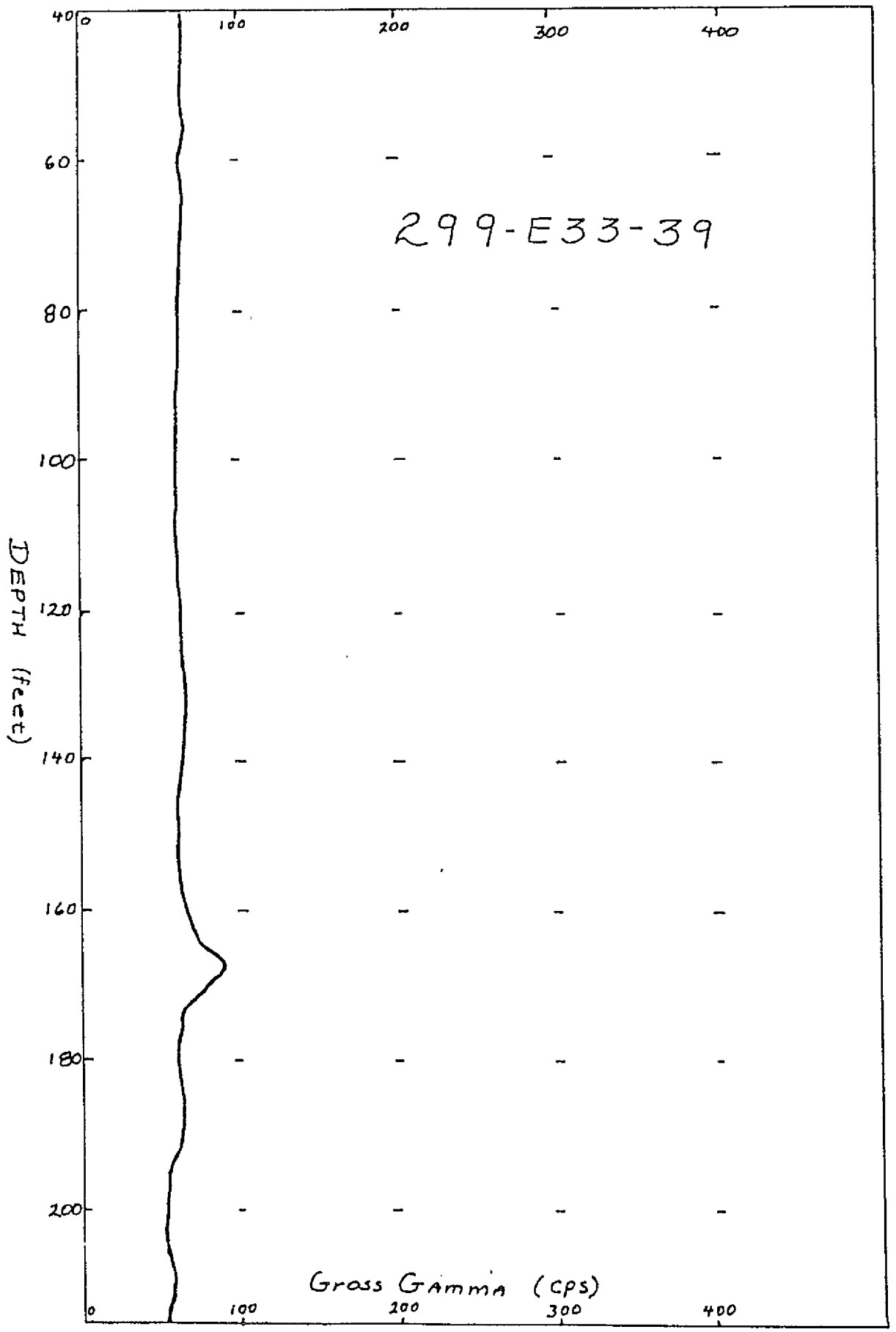
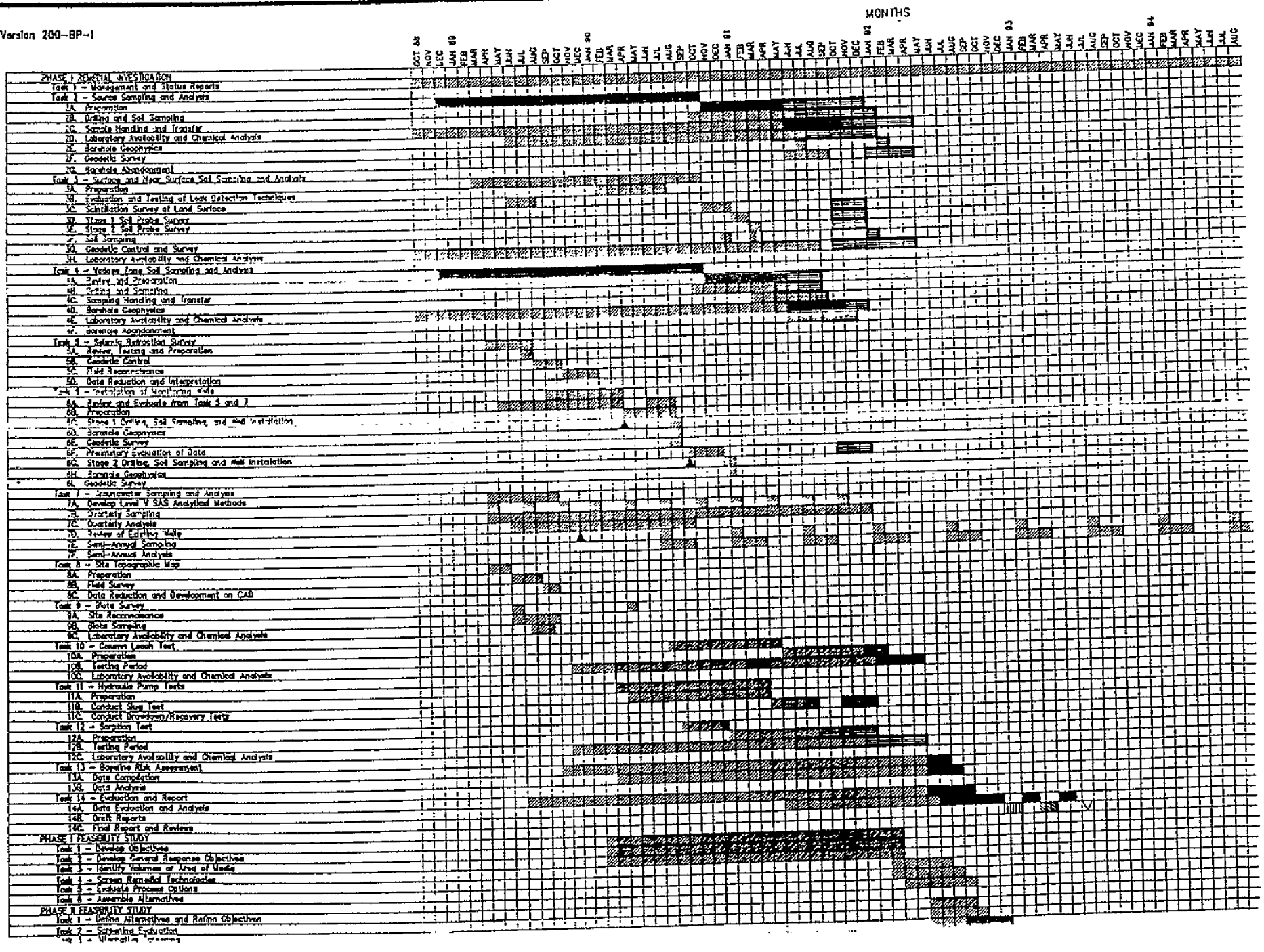


A0161053.CHN SAMPLE: 299-E33-40 at 191.5ft


299-E33-39
DEPTH (feet)
40
60
80
100
120
140
160
180
200
0
100
200
300
400
Gross Gamma (cps)

3/90 Version 200-BP-1



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